

Dr. LIU Fan



Lecturer & Consultant, Software Systems Practice

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Profile

Liu Fan currently lecturers in the Software Systems Practice in the areas of software engineering, big data engineering and data analytics. She received her Ph.D Ph.D. degree from School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore.

Prior to joining NUS-ISS, she was a lecturer of the School of Informatics & IT, Temasek Polytechnic. She has also worked at GovTech as Data Scientist, handling Big Data Analytics for Smart Nation Platform. Her research interests lie in big data engineering, fuzzy neural networks and machine learning.

Educational Qualifications/Professional Certifications

- Ph.D., School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
- M.Eng., School of Automation, Northwestern Polytechnical University, Xi'an, China
- B.Eng., School of Marine, Northwestern Polytechnical University, Xi'an, China

Academic and Professional Experience

- Lecturer, Temasek Polytechnic
- Data Scientist, IDA
- Development Engineer, Nanyang Polytechnic

Membership and Professional Activities

- Singapore Computer Society (SCS) Professional

Member

Research Interests

- Big Data Analytics
- Fuzzy Neural Networks
- Machine Learning

Selected Publications

Liu F., Er MJ., "A novel efficient learning algorithm for self-generating fuzzy neural network with applications", International Journal of Neural Networks, vol 22(1), Feb. 2012, pp. 21-35.

Er MJ. Liu F., Li MB., "Self-constructing Fuzzy Neural Networks with Extended Kalman Filter", International Journal of Fuzzy Systems, vol 12(1), Mar. 2010, pp. 66-72.

Liu F. Er MJ., Rutkowski Leszek, "An online approach towards self-generating fuzzy neural networks with applications", The 2010 International Joint Conference on Neural Networks (IJCNN), Jul. 2010, Barcelona, Spain.

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